

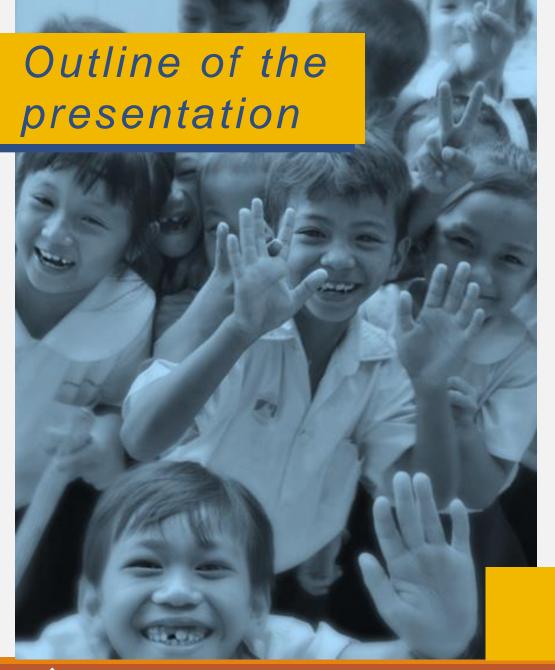
Basic Education during the COVID-19 Pandemic

What do Enrollment by **Learning Modality and** Household Characteristics Tell Us?

Aniceto C. Orbeta, Jr.

Thursday, 26 May 2022 | 2:00 - 4:30 PM (Manila Time)





01 INTRODUCTION

Objectives
Data and methodology

BASIC EDUCATION DURING THE PANDEMIC

Government responses
Household responses

REACHABILITY OF STUDENTS
AND HOME SUPPORT

Access to the internet, TV, Radio, and Phones

O4 SUMMARY AND RECOMMENDATIONS

INTRODUCTION

Objectives of the study



To describe the responses of the education sector to the pandemic



To explain the pattern of learning modalities used by students based on household data



To describe how the students reacted through their use of the offered learning modalities



Draw insights and recommendations to guide implementation of remote learning



DATA AND METHODOLOGY



DepEd's enrollment data by learning modality

Indicates the learning modality used by students by level and type of school

Distribution of learning modality used may be the result of:

- (a) the preferences and the capacity of students to benefit from the different modalities;
- (b) the capacity of schools to offer the different modalities

2020 Annual Poverty Indicators Survey (APIS)

Provides estimates of the non-income indicators related to poverty

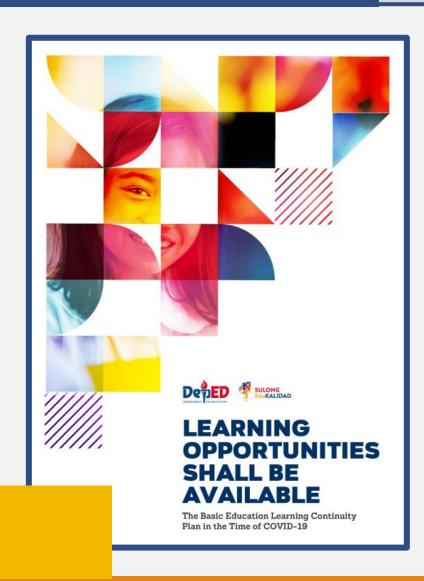
The study uses household data on the availability of the technologies that enable students to avail of the different learning modalities (e.g., access to the internet, TV, radio, and cell phone), and enrollment data by level and type of school

This study did a regression analysis to provide estimates on the correlates between having internet at home and the availability of broadband -> can help explain the availability of internet at home



GOVERNMENT RESPONSES

DepEd's Learning Continuity Plan



Basic Education Learning Continuity Plan (BE-LCP)

- Issued in May 2020, this guided the education sector's response to the pandemic
- Identified several learning delivery modes, including
 - 1) face-to-face in areas where there are low risks;
 - 2) distance learning modes by print, online, TV, and radio;
 - 3) blended learning combines face-to-face and distance learning;
 - 4) homeschooling (DepEd Department Order 12)
- Most Essential Learning Competencies Streamlining of the K-to-12 curricula from 14,171 competencies to 5,689 or a reduction by 60 percent



GOVERNMENT RESPONSES

Law and department issuances

Republic Act 11495

Bayanihan to Recover as One Act

- Authorization given to DepEd to hire learning support aides (LSAs) – teacherassistants for the production or reproduction of modular learning materials for K-12 (Section 4)
- Allocated PHP 4.35 billion to basic education (DepEd) assigned as follows:
 - 1) Laptops for teachers PHP 2.4 billion
 - 2) Internet connectivity load PHP 1.2 billion
 - 3) DepEd TV and Radio PHP 300 million
 - 4) Subsidies and allowances PHP 300 million
 - 5) Learning modules PHP 150 million

Department Orders

Issued by the Department of Education

to further guide the implementation of BE-LCP:

Department Order 31 s.2020

Provides guidelines for assessment and grading - reminds teachers to be flexible and "set realistic expectations"

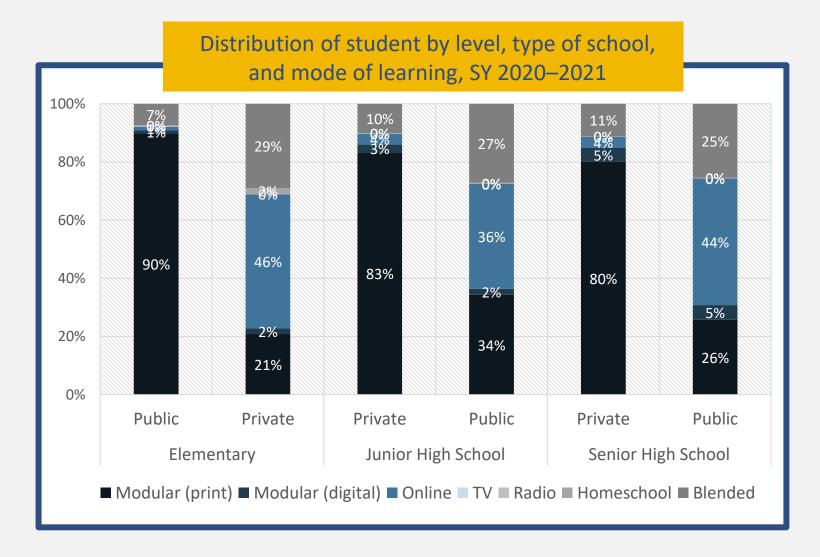
Department Order 32 s.2020

Provides guidelines on the utilization of LSAs – should be senior high graduates or have completed at least two years of college



Enrollment by mode of delivery

- More students in private schools use online learning, while public school students rely mostly on printed modules
- Blended learning is also popular in schools where the online mode is largely availed - might be because of the unreliable internet connection
- Neither TV nor radio figured prominently as the mode of delivery utilized by students in public and private schools

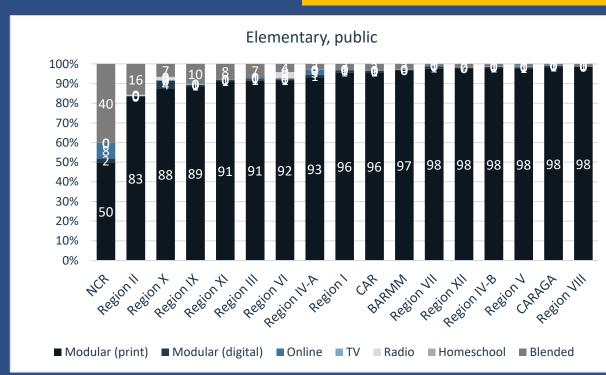


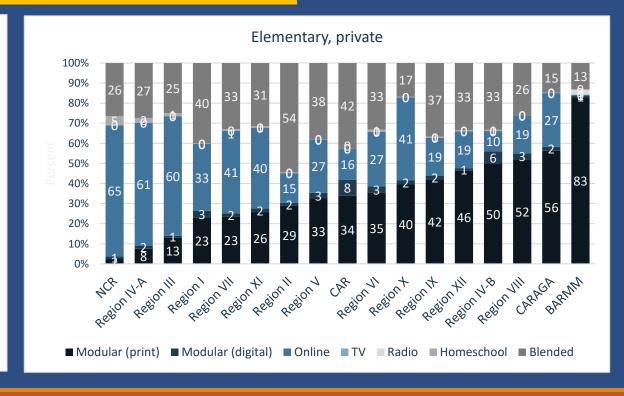
HOUSEHOLD RESPONSES

Distribution of mode of learning by region (1)

Modality used by the students is not only a function of the availability of the internet in the area or of the school's capacity to provide online learning but also of the students' capacity to avail of the same

Distribution of elementary students by learning modality, by type of school, and by region SY 2020-2021





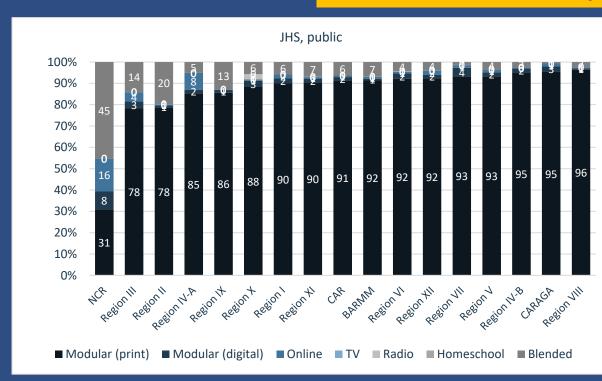


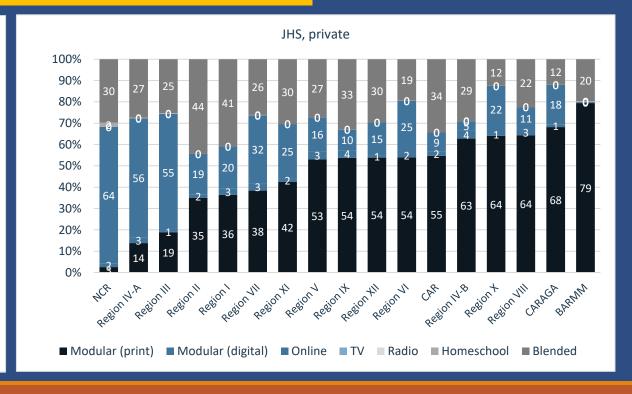
HOUSEHOLD RESPONSES

Distribution of mode of learning by region (2)

- Private schools have a sizeable no. of students using online and blended learning modes - in NCR, RIII, and RIV-A, online mode is the modal group for elementary, JHS, and SHS
- Public school students for all regions are mostly using printed modules – except for public JHS and SHS students in NCR

Distribution of JHS students by learning modality, by type of school, and by region SY 2020-2021





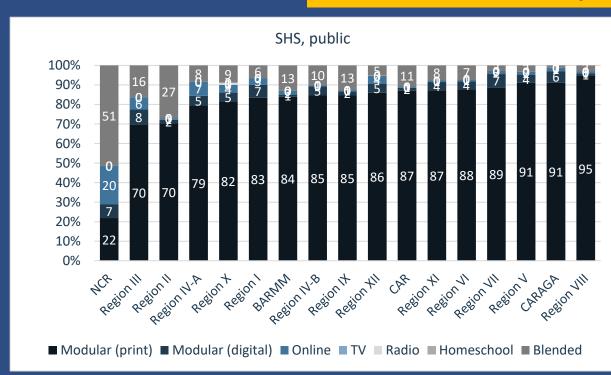


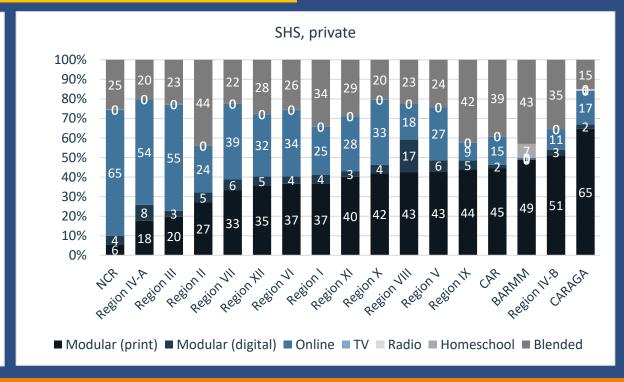
HOUSEHOLD RESPONSES

Distribution of mode of learning by region (3)

 Distribution of learning modalities used also reflects the economic status of the students each type of school is serving - more students use online modes of learning in private schools because they are likely to have access to electronic devices and internet connection

Distribution of SHS students by learning modality, by type of school, and by region SY 2020-2021







"the share of school children that can be potentially reached by remote learning policies adopted by governments to ensure learning continuity in a country" – Avanesian et al. (2021, p.3)



HOME INTERNET ACCESS



HOME ACCESS TO TV
AND RADIO

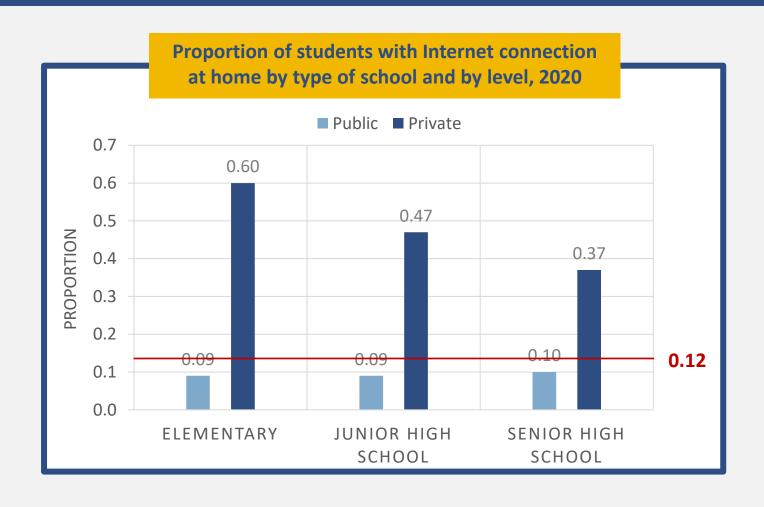


ACCESS TO CELL PHONES



Home Internet access by students

Access to the internet is significantly higher among students in private schools than students in public schools – consistent across region



Home Internet access by students

Correlation of connectivity to broadband at home

Most important correlate is the **presence of broadband infrastructure** followed by the variables: income, family size, and either parent having a high school education

Regression of internet availability and household characteristics

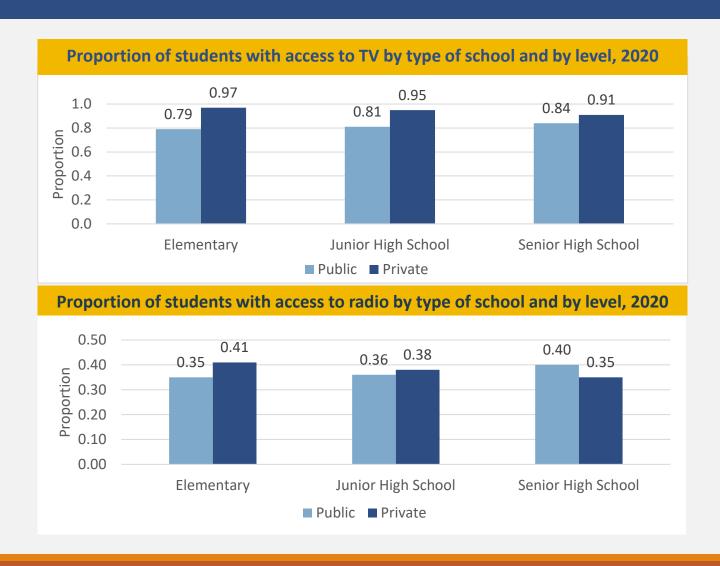
Variables	Standardized Coefficient
Log monthly per capita income	0.3430***
Family size	0.1891***
Parents have HS education	0.1132***
In urban	0.0786***
Male head	-0.0392***
Log age of head	0.0401***
Head working	-0.0000
Prop of family are children 6-11 years old attending elementary	-0.0024
Prop of family are children 12-15 years old attending HS	0.0032
Presence of broadband infrastructure	0.4536***
Observations	41,839

Note: * p < 0.5, ** p < 0.01, *** p < 0.001



Home access to TV and Radio by students

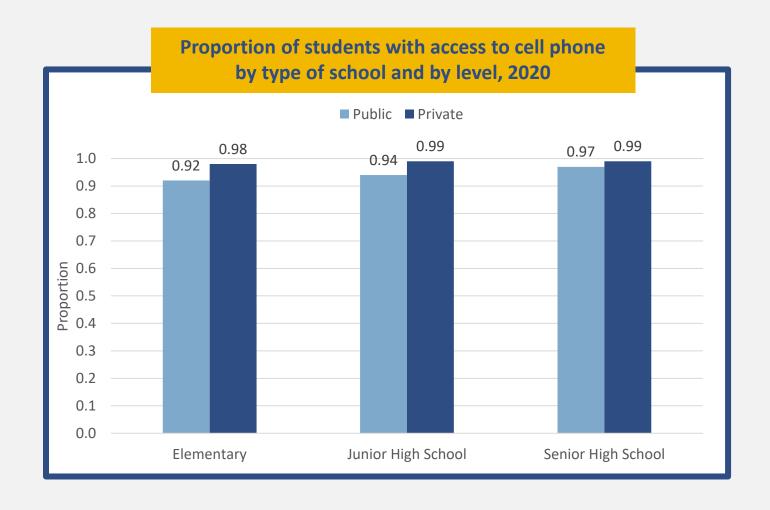
- Disparity is not wide between public and private school students across all levels
- High proportion of students have TV (above 79%) and radio (above 35%) at home (however, the data on enrollment by modality do not show a commensurate proportion of users for these modes)





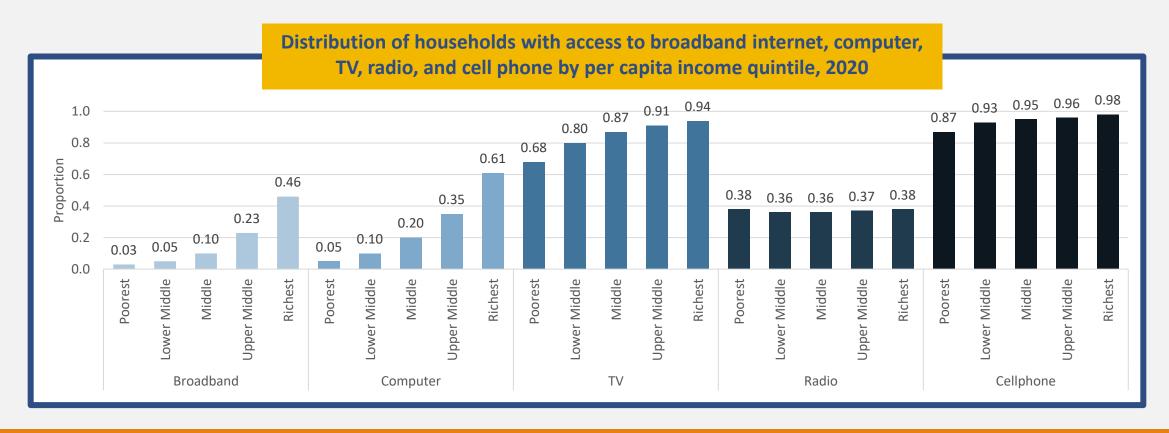
Access to cell phones by students

Near-universal access to cell phones; no significant disparity in access between public and private school students



In relation to socioeconomic status

Disparity in reachability by income class shows a wide gap in the access to the internet and having a computer compared to TV, radio, and cell phone

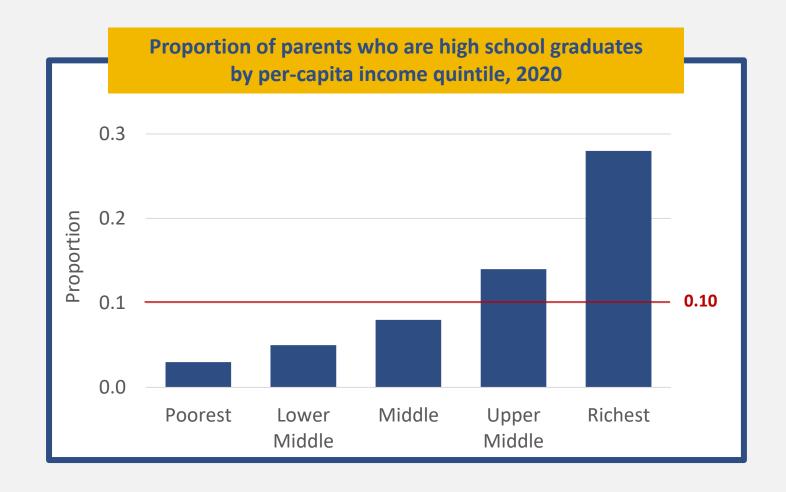




Home Support

Home support greatly influences students' learning attitude, self-regulation, and intrinsic motivation (OECD 2020)

- Quality of home support is affected by the availability and the ability of parents to support their children's education needs (i.e., level of parent's education)
- Quality is lower among children in more impoverished families



SUMMARY

Most of the students in public schools use printed modules for all levels of basic education—elementary, JHS, and SHS

The availability of the internet at home is correlated to the presence of broadband infrastructure in the area and income

Only in private schools does one find a considerable proportion of students on online and blended learning

The availability of TV and radio is high and there is not much difference between public and private school students – also true for cell phone with even higher availability

There is significant disparity in internet access at home between students enrolled in private and public schools across all education levels

The distribution of households where either parent a high school graduate also shows a wide disparity across income quintiles



Recommendations and insights



Online mode of learning will not reach most public-school students

- Even if available in public schools, most students do not have access to it at home
- The desire to build online learning capacity in public schools will not be the most effective intervention at present



Primary and exigent concern is to support learning of the most popular mode - printed modules

- As the most popular mode of learning, it is critical to support printed modules
- Support may include provision of cell phones and cell phone load to improve interaction among teachers, students, and parents



Education delivery through TV and radio needs to be improved

- Despite high proportion of households owning TV and radio, enrollment data by modality does not show commensurate use of these modes of delivery
- Issues that prevent greater use of these broadcast modalities need to be identified and addressed



Recommendations and insights



Address the disparity in the quality of home support by socioeconomic class

- In the absence of teachers, home support is critical in students' learning – more acute the younger the student is
- Use of Learning Support Aides (LSAs) to provide targeted learning support at home particularly for households with lowly educated parents needs to be explored



Address learning disparity by socioeconomic class expected with remote learning

- Home conditions of more impoverished families is expected to be less conducive for learning
- Underscores the importance of:
 - (i) enabling greater interactivity between teachers, pupils, and parents using printed modules; and
 - (ii) Providing home support for children of lowly educated parents

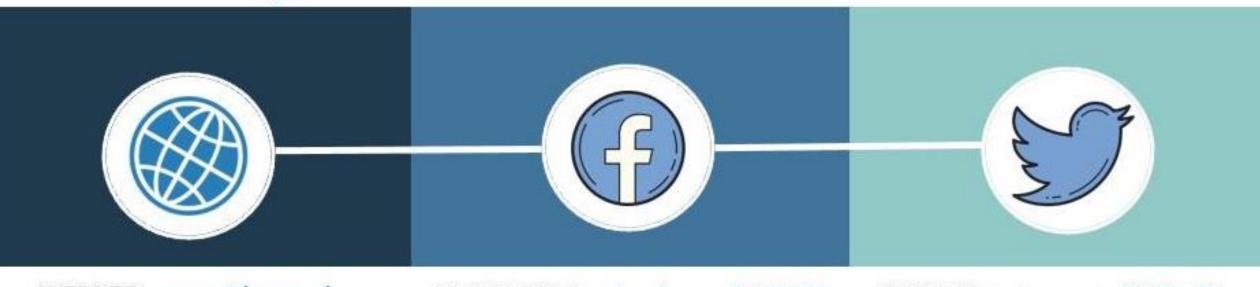


Recognize the need for remedial measures to address low test scores – even before the pandemic

- Low average test scores in the recent PISA and TIMSS and the call to focus on quality through Sulong Edukalidad highlights the need for massive remedial measures
- Emphasis on students from lowincome households



Thank You!



WEBSITE: www.pids.gov.ph

FACEBOOK: facebook.com/PIDS.PH

TWITTER: twitter.com/PIDS PH



